

Space Network Ground Segment Sustainment Program
Code 458
Contract Deliverables Requirements List (CDRL)

EFFECTIVE: TBD
EXPIRES: TBD

Goddard Space Flight Center
Greenbelt, Maryland

DRAFT

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1. INTRODUCTION

This document provides the Contract Data Requirements List (CDRL) of the Data Items (DI) that **shall** be provided by the SN Ground Segment Sustainment (SGSS) contractor as data deliverables in support of the SN Ground Segment development. Section 1.0 includes the introduction and the description of the CDRL document. Section 2.0 provides definitions for the identification, delivery and acceptance of the CDRL DIs. Section 3.0 provides a summary listing of the CDRL DIs with the related identification number, proposal inclusion, acceptance, and submission information. Section 4.0 provides the Data Item Description's (DIDs) for each CDRL DI in section 3.0.

2. IDENTIFICATION, REFERENCE, DELIVERY, AND ACCEPTANCE

The transmittal letter and/or email for all deliverables **shall** be addressed to the SN Ground Segment Sustainment Contracting Officer at:

TBD

The following definitions and instructions apply to Tables 11 through 10.

2.1 ID

The information in the ID column identifies the Data Item by functional category and a sequential number within that category. The data item prefixes and the associated functional categories are listed below.

Data Item Prefix	Functional Category
PM	Program Management
CM	Configuration Management
IS	Information Security
SE	System Engineering
RE	Review Packages
SW	Development
IT	I&T and Transition to Operations
MA	Safety and Mission Assurance
TR	Training
OM	Maintenance and Operations

Table 1 – Data Item Prefix and Associated Functional Category

2.2 Title

The CDRL Title describes the required data, or document that is traceable to specific elements of the functional category breakdown structure.

2.3 Reference

The reference is the Statement of Work (SOW) or other requirement associated with the Data Item.

2.4 Proposal

An "X" in this column indicates that a preliminary version of the Data Item **shall** be included with proposal.

2.5 Contract Submission

Submission Information includes:

2.5.1 Maturity Information

Initial: The initial submission of an item. To be completed with available information as of the time of preparation for the due date.

Update: The best up-to-date information available at the time. Any updates **shall** require the same "approval/review" process as was required for the previous submissions.

Final: The complete thorough submission of an item for approval, review, or information.

2.5.2 Additional Definitions

Meaning for terminology used in CDRL is as follows:

The term "**shall**" designates a requirement. The terms "*will*" and "*is*" designate statements of fact.

The term "(TBD)" means, "To Be Determined", applied to a missing requirement means that the contractor determines the missing requirement.

The term "(TBR)" means, "To Be Reviewed". This is applied to requirements or values that are subject to review by the Government and the contractor. The "TBR" merely provides an indication that the value has the potential to change in a future modification.

The term "(TBS)" means, "To Be Supplied", identifies missing or incomplete information, values, or data needed to fulfill a requirement. The Government will furnish values for items identified by a TBS. The Government will provide a date or milestone for each TBS requirement".

The term "SGSS Contractor Development" (SGSSCD) is applied to the SGSSCD architecture and functionality being provided directly by the SGSS contractor, hereafter referred to as "contractor".

The term "SGSS Associate Developments" (SGSSAD) specifies SGSS architecture and functionality being provided by associate activities, such as antenna, telecommunications, user interface, and algorithms. Some of

these may be provided to the SGSSCD as GFP to be delivered as part of the SGSSCD deliverables while other GSADs will supply interface(s) for the SGSSCD

The term ATP means Authority to Proceed.

The term ATO means Authority to Operate

The term DACA means days after contract award.

The term Monthly means monthly by the 15th of each month or as required or as modified by CO.

The term Bi-weekly means submitted with Bi-weekly Status Reports by Tuesday close of business or as modified by CO.

The term Weekly means submitted weekly by Friday close of business or as modified by CO.

The term Days means unless indicated otherwise, calendar days.

The term POP means Period of Performance referring to contract POP.

The term As Generated means After each initial edition, revision, addition. Items that are critical to schedule, performance, or interface **shall** be transmitted to Ground Segment Project within 48 hours of generation.

The term As Required means items updated and delivered as required at the direction of the CO.

2.5.3 Delivery Format

Unless otherwise indicated under Hard Copy, all data items **shall** be delivered in electronic format to a SGSS Project specified web portal. Electronic deliverables **shall** be delivered in the following formats unless otherwise approved by the CO:

- Text Documents: Microsoft (MS) Word
- Presentations: MS PowerPoint
- Spreadsheets: Microsoft Excel
- Database: Delimited ASCII files accompanied with database schema document defining tables and entries.
- Schedules: MS Project
- Schematics and Drawings: PDF and Microsoft Visio
- Photographs: JPEG or current industry standard.
- Video: Any readily available open standard (e.g., AVI, MPEG)

For hardcopy deliverables, the number of copies is indicated in the Hard Copy column. All hardcopy deliverables **shall** be delivered to:

SGSS Project Documentation Manager

Address (TBS)

Hard Copy includes data that is typed, drawn or printed on paper by common conventional practices. If required, the original, a reproducible or the record copy **shall** be produced, or reproduced, for distribution as printed copies.

Electronic format deliverables shall have file names that indicate the CDRL number and the contract submission type. For example CDRL-PM-01-Initial.

The title page of all CDRLs shall contain the CDRL number, contract submission type and the date.

2.6 Contract Acceptance Code

The following codes apply to all submissions of the CDRLs (i.e., initial, final, and updates) as identified in Table 2.

A –Approval –Documents in this category **shall** require submission to the SGSS Project within the time specified and written approval prior to Contractor implementation. Requirements for resubmission **shall** be as specified in letter(s) of disapproval. The SGSS Project will act on items requiring approval within 30 days of receipt of the item.

R –Review –Documents in this category **shall** be submitted to the SGSS Project within the time period specified, and will be subject to evaluation. These documents **shall** be implemented upon issuance unless otherwise noted. However, when an evaluation reveals inadequacies in a document, the Contractor **shall** correct the document as required.

I –Information –Documents in this category will be used by the SGSS Project to determine current project status and progress and for future planning requirements.

2.7 Format

Unless otherwise specified in the individual Data Item Description, contractor format is acceptable.

2.8 Documentation Change Procedures

The documentation change procedures that **shall** be followed are described below.

- The contractor **shall** issue documentation change notices (DCNs) whenever minor changes or updates occur in data items that have been delivered to the Government.
- Change bars **shall** be used to indicate changes or updates.
- When major changes to a document are made, a complete revision of the document **shall** be issued and delivered to the Government.

2.9 Document Markings

Documents containing materials or information covered and controlled by International Trafficking in Arms Regulations (ITAR) or Export Administration Regulation (EAR) regulations, as determined by the contractor,

shall be so marked on the cover and on pages containing such materials. Documents containing contractor Proprietary materials or information, as determined by the contractor, **shall** be so marked on the cover and on pages containing such materials.

Documents **shall** not be unnecessarily or unjustifiably marked with restrictive or limiting labels, nor **shall** such labeling be applied frivolously.

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3. CONTRACT DATA REQUIREMENTS LIST

Tables 1 through 11 are the Contract Data Requirements List. See Section 2.0 for explanation of terms. 3.1 Project Management

3.1 Program Management

Table 1 – SGSS Contract Data Requirements List – Project Management

ID	Title	Ref ¹		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
PM-01	Project Management Plan	SOW 112 3.14.1.1		30 DACA	90 DACA			A
PM-03	Integrated Master Schedule	SOW 115 242 3.14.1.1			30 DACA	monthly		A
PM-04	Subcontract Management Plan	SOW 414		30 DACA	90 DACA			A
PM-05	Small and Disadvantaged Business Subcontract Plan				90 DACA			A
PM-06	Monthly Project Status Review (MPSR)	SOW 241			Monthly			I

¹ SOW Reference

Table 1 – SGSS Contract Data Requirements List – Project Management

ID	Title	Ref ¹		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
PM-07	Weekly Status Reports	SOW 587			Every week			I
PM-08	Meeting Minutes	SOW 417		Meeting + 1 day				R
PM-09	Contract Performance Report (CPR)	SOW 130			After the 15 th day of the month of contract award	On the 15 th day of the month		R
PM-10	Earned Value Measurement System (EVMS) Plan	SOW 418 216			IBR-6 weeks			R
PM-11	Integrated Baseline Review (IBR) Data Package	SOW 126, 116		IBR-6 weeks	IBR	Upon approved rebaseline		R
PM-12	Financial Reports	SOW 585			Monthly per NPR 9501.2D Quarterly per	Due the 15 th Day of the month		R

Table 1 – SGSS Contract Data Requirements List – Project Management

ID	Title	Ref ¹		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
					NPR 9501.2D			
PM-14	Risk Management Plan	SOW 133		60 DACA	90 DACA	MDR – 2 weeks		A
PM-15	Risk Report	SOW 135 SOW 137		90 DACA		Monthly		R
PM-17	Discrepancy Report	SOW 3.9 SOW 378 SOW 436 SOW 386 SOW 387 MAR 180			As Generated			CAT I&II – A Cat III & V - R
PM-18	Action Items	SOW 526			As Generated			CAT I&II – A Cat III & V - R
PM-19	Cost Analysis Data Requirements (CADRe)	SOW 584		60 DACA	60 DACA	PDR-45d, CDR+45d, Project Delivery		A

Table 1 – SGSS Contract Data Requirements List – Project Management								
ID	Title	Ref ¹		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
						+90d		
PM-20	Option Management and Implementation Plan	SOW 620 SOW 621		30 Days After Option Start	60 Days after Option Start			A

3.2 Configuration Management

Table 2 – SGSS Contract Data Requirements List – Configuration Management

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
CM-01	Configuration Management Plan	SOW 139		60 DACA	90 DACA	As required		A
CM-02	SGSS Document Tree	SOW 593		MDR-2 weeks	PDR-2 weeks	CDR – 2 weeks		R
CM-04	SGSS Drawing Tree	SOW 594		PDR-2 weeks	CDR-2 weeks	CDR + 30 days		R
CM-05	Configuration Item Identification List (CIIL)	SOW 551		PDR-2 weeks	CDR-2 weeks	CDR + 30 days SAR		R
CM-08	Configuration Control Board Minutes	SOW 546			As generated			R
CM-09	Engineering Change Requests	SOW 592			As generated			A
CM-11	Waiver Request	SOW 144 MAR 102			As generated			A

3. Program Security

Table 3 – SGSS Contract Data Requirements List – Program security

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
PS-01	IT System Security Plan	SOW 196		MDR-2 weeks	PDR	CDR, every 3 years and whenever a significant system changes occurs		A
PS-02	IT Systems Security Assessment	SOW 198		PDR-2 weeks	ATO-3 months	Annually and whenever a significant system change occurs		A
PS-03	IT Security Risk Assessment	SOW 198		PDR-2 weeks	ATO-3 months	Every 3 years and whenever a significant system change occurs		A
PS-04	IT Contingency Plan	SOW 199		PDR-2 weeks	ATO-3 months	CDR and whenever a significant system changes occurs		A
PS-05	Certification and Accreditation Support Documentation	SOW 200		PDR – 2 weeks	ATO – 3 weeks	Every 3 years and whenever a significant system change occurs		A
PS-	Interconnection Security Agreement			PDR – 2 weeks	ATO- 3 weeks	CDR, When there are external interface		R

Table 3 – SGSS Contract Data Requirements List – Program security

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
06						changes or significant system changes		
PS-09	Program Security Plan			90 DACA		Every 3 years and whenever a significant program change occurs		A

3.4 Systems Engineering

Table 4 – SGSS Contract Data Requirements List – Systems Engineering

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
SE-01	Systems Engineering Management Plan (SEMP)	SOW 264		90 DACA	SRR – 2 weeks			A
SE-27	Technology Assessment Report			SRR – 2 weeks	PDR – 2 weeks			R
SE-10	Technology Development Plan	SOW 368		MDR – 2 weeks	PDR – 3 weeks	CDR – 3 weeks		A
SE-02	SGSS System Requirements Document	SOW 268 SOW 291			SRR – 2 weeks	MDR – 3 weeks		A
SE-03	SGSS Concept of Operations	SOW 268 SOW 473			90 DACA months	SRR – 3 weeks MDR – 3 weeks PDR – 3 weeks CDR – 3 weeks		A
SE-04	SGSS Element Requirements Specification	SOW 268 SOW 291		MDR-2 Weeks	Element PDR-3 weeks	Element PDR+ 60 Days		A

Table 4 – SGSS Contract Data Requirements List – Systems Engineering

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
SE-05	SGSS Element Software Requirements Specifications			Element SWRR – 3 weeks	Element PDR – 3 weeks	PDR + 60 days		R
SE-07	Requirements Verification Traceability Matrix	SOW 385		SRR-2 Weeks	MDR-3 weeks	PDR – 3 weeks, CDR – 3 weeks, TRR – 3 weeks, SAR – 3 weeks		R
SE-08	SN External Interface Requirements Documents	SOW 279 SOW 291				SRR – 3weeks MDR – 3 weeks MDR+ 60 Days		A
SE-09	SN External Interface Control Documents	SOW 279				MDR – 3 weeks PDR –3 weeks CDR - 3 weeks		A
SE-27	SGSS Internal Interface Requirements Document			MDR – 3 weeks	PDR –3 weeks	CDR - 3 weeks		A
SE-	SGSS Internal Interface Control Document	SOW 268		PDR – 3	CDR –3	TRR-2 weeks		R

Table 4 – SGSS Contract Data Requirements List – Systems Engineering

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
28				weeks	weeks			
SE-11	SGSS Architecture Description Document (ADD)	SOW 268		MDR – 3 weeks	PDR – 3 weeks	CDR – 2 weeks s		R
SE-12	SGSS Element Design Description	SOW 268		Element PDR-3 Weeks	Element CDR-3 weeks	Element CDR+ 60 Days		R
SE-16	Studies and Trades	SOW 282		As required	As required	As required		R
SE-17	Modeling and Simulation Plan	SOW 285		SDR- 3 weeks	CDR – 3 weeks	CDR + 60 days		R
SE-18	Modeling and Simulation Analysis Report	SOW 287			As required	As required		R
SE-19	SGSS Performance Verification Plan	SOW 290		PDR – 3 weeks	CDR – 3 weeks	As required		A
SE-20	SGSS Performance Verification Reports	SOW 294		-	Within 30 days of each verification	As required		R

Table 4 – SGSS Contract Data Requirements List – Systems Engineering

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
					event			
SE-21	Engineering Peer Review Plan			ATP + 30 days	ATP + 90 days	As required		R
SE-22	Engineering Drawings	SOW 593		CDR – 1 week	1 week prior to PSR(s)	As required		I
SE-23	Product Definition and Users' Guide Document			CDR- 3 weeks	SAR – 3 weeks	SAR + 60 days		R
SE-24	Engineering Peer Review Data Packages	SOW 307			AS required			R
SE-25	Technology Refresh and Sparing Plan	SOW 548		PDR- 3 weeks	CDR – 3 weeks	yearly		A
SE-26	Software and Systems Metrics Report	SOW 243		SRR+30		monthly		R

3.5 Review Packages

Table 5 – SGSS Contract Data Requirements List – Review Packages

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
RE-01	Systems Requirements Review (SRR); SGSS Input Package	SOW 549		SRR – 2 weeks	SRR + 30 days		40 Color 60 B&W	R
RE-02	Mission Definition Review (MDR) ; SGSS Input Package	SOW 549		MDR – 2 weeks	MDR + 30 days		40 Color 60 B&W	R
RE-03	Software Requirements Review (SWRR); SGSS Input Package			SWRR – 2 weeks	SWRR + 30 days		40 Color 60 B&W	R
RE-05	Preliminary Design Review (PDR); SGSS Input Package	SOW 549		PDR – 2 weeks	PDR + 30 days		40 Color 60 B&W	R

Table 5 – SGSS Contract Data Requirements List – Review Packages

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
RE-06	Element Preliminary Design Review (PDR); SGSS Input Package	SOW 562		Element PDR – 2 weeks	Element PDR + 30 days		40 Color 60 B&W	R
RE-07	Element Critical Design Review (CDR) ; SGSS Input Package	SOW 562		Element CDR – 2 weeks	Element CDR + 30 days		40 Color 60 B&W	R
RE-08	Critical Design Review (CDR) ; SGSS Input Package	SOW 549		CDR – 2 weeks	CDR + 30 days		40 Color 60 B&W	R
RE-12	Production Readiness Review – First Article Review (PRR); SGSS Input Package			PRR – 2 weeks	PRR + 30 days		40 Color 60 B&W	R
IT-03	Pre-Shipment System Acceptance Review (SAR Data Package	SOW 226					40 Color 60 B&W	R

Table 5 – SGSS Contract Data Requirements List – Review Packages

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
IT-07	Operational Readiness Review (ORR) Data Package	<i>SOW 456</i>		<i>ORR – 2 weeks</i>	<i>ORR +30 days</i>		40 Color 60 B&W	<i>R</i>
RE – 11	Final Acceptance Review (FAR) Data Package	<i>SOW 549</i>		<i>FAR – 2 weeks</i>	<i>FAR + 30 days</i>		40 Color 60 B&W	R

3.6 Development

Table 6 – SGSS Contract Data Requirements List – Software Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
SW-01	Software Development and Management Plan	SOW 371		90 DACA	120 DACA			A
SW-14	Software Configuration Management Plan			SWRR-3 weeks	PDR + 30 days	CDR + 30 days		A
SW-15	Software Engineering Improvement Plan			SWRR- 3 weeks	PDR + 30days			A
SW-11	SGSS Software Design Descriptions	SOW 268		Element PDR– 3 weeks	Element CDR – 3 weeks	CDR – 2 weeks		R
SW-12	SGSS Database Design Descriptions	SOW 268		Element PDR– 3 weeks	Element CDR – 3 weeks	CDR – 2 weeks		R

Table 6 – SGSS Contract Data Requirements List – Software Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
SW-16	Software Data Dictionary			PDR – 3 weeks	CDR – 3 weeks	CDR + 30 Days		R
SW-02	Software Test Plan	SOW 436		PDR- 2weeks	CDR-2weeks	As required		A
SW-03	Detailed Software Test Plans and Procedures	SOW 436		TRR-60 days	TRR- 2 weeks	As required		R
SW-04	Software Test Reports	SOW 436			Within 15 days of test conclusion	As required		R
SW-05	Software Installation Plan	SOW 436			SAR – 30 days	As required		R
SW-06	Software Release Delivery Package	SOW 436 SOW			With each release	As required		R

Table 6 – SGSS Contract Data Requirements List – Software Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
		469						
SW-17	Software Maintenance Plan			CDR – 3 weeks	SAR – 3 weeks	As required		R
SW-07	Software Maintenance Manuals	SOW 483		First delivery – 3 weeks	2 weeks prior to SGSS Acceptance review	As required		R
SW-08	Software Users Manuals	SOW 510		First delivery – 3 weeks	2 weeks prior to SGSS Acceptance review	As required		R
SW-09	Software Version Descriptions	SOW 436			For each software delivery	As required		R

Table 6 – SGSS Contract Data Requirements List – Software Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
SW-10	Software Element Design Documents	SOW 436			For each software delivery	As required		R
SW-18	Software Inspection / Peer Review Report			SWRR + 30	Monthly	As required		I
SW-19	Software Master Build Plan	SOW		PDR	CDR	For each plan change		A
SW-20	Software Transition Plan	SOW		CDR – 2 weeks	TRR – 2 weeks	As required		A

Table 7 – SGSS Contract Data Requirements List – Hardware Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
HW-01	SGSS Hardware Design Descriptions	SOW 688		Element PDR- 3 weeks	Element CDR – 3 weeks	CDR – 2 weeks		R
HW-02	Hardware Element Design Description	SOW 689		PDR- 2weeks	CDR-2weeks	As required		R
HW-03	Hardware Test Plan	SOW 698		PDR- 2weeks	CDR-2weeks	As required		A
HW-04	Detailed Hardware Test Plans and Procedures	SOW 698		TRR-60 days	TRR- 2 weeks	As required		R
HW-05	Hardware Test results	SOW 698			Within 15 days of test conclusion	As required		R

Table 7 – SGSS Contract Data Requirements List – Hardware Development

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
HW-06	Hardware Installation Plan	SOW 700			SAR – 30 days	As required		R
HW-07	System Hardware Configuration	SOW 700			For each delivery	As Required		R

3.7 Integration and Test

Table 8 – SGSS Contract Data Requirements List – Integration and Test

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
IT-01	Integration and Test Plan	SOW 392		PDR – 2 weeks	CDR – 2 weeks	CDR + 60 days and as required		A
IT-02	Detailed Integration Test Plans and Procedures	SOW 393		60 days prior to test	TRR / Test – 2 weeks	As required		R
IT-04	Post Test Data Packages	SOW 397		Test + 2 weeks		As required		R
IT-05	Site Survey	SOW 443 420		PDR – 2 weeks	CDR – 2 weeks	As required		R

3.8 Mission Assurance

Table 9 – SGSS Contract Data Requirements List – Mission Assurance

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MA-02	Mission Assurance Implementation Plan	MAR 112		60 Days After Contract Award	90 Days After Contract Award	As Required		A
MA-03	Quality Manual	MAR 116		60 Days After Contract Award	90 Days After Contract Award	As Required		R
MA-04	System Safety Program Plan	MAR 137		SRR	CDR – 3 weeks	As Required		R
MA-05	Safety Requirements Compliance Checklist	MAR 141		PDR – 3 weeks	CDR – 3 weeks	As required		R
MA-06	Preliminary Hazard Analysis	MAR 143 MAR 150		PDR – 3 weeks	CDR – 3 weeks	As required		A

Table 9 – SGSS Contract Data Requirements List – Mission Assurance

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MA-07	Operations Hazard Analysis	MAR 147		CDR – 3 weeks	Prior to Integration Testing	As Required		A
MA-08	Verification Tracking Log	MAR 151		CDR – 3 weeks	Prior to First Operational Use	As Required		A
MA-09	Safety Variance	MAR 155		As Soon As Identified	As soon as identified			A
MA-10	Mishap Contingency Plan	MAR 158		PDR – 3 weeks	CDR – 3 weeks	As Required		A
MA-11	Probabilistic Risk Assessment and Reliability, Maintainability and Availability Program Plan	MAR 161 MAR 167 MAR 178 MAR 222		60 DACA (R)	SRR – 30 days	Monthly Progress Updates		A

Table 9 – SGSS Contract Data Requirements List – Mission Assurance

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MA-12	RMA Prediction and Model Report	MAR 171 MAR 206 MAR 207 MAR 209 MAR 232		PDR – 3 weeks	CDR – 3 weeks	As Required		R
MA-13	RMA Demonstration Report	MAR 173		PDR – 3 weeks	CDR – 3 weeks	As Required		R
MA-15	Probabilistic Risk Assessment	MAR 184		PDR – 3 weeks	CDR – 3 weeks	As Required		A
MA-16	Failure Mode and Effects Analysis (FMEA)	MAR 187		PDR – 3 weeks	CDR – 3 weeks	3 weeks prior each milestone		A
	Critical Items List (CIL)	MAR 187		PDR – 3 weeks	CDR – 3 weeks	3 weeks prior each milestone		A

Table 9 – SGSS Contract Data Requirements List – Mission Assurance

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MA-17	Fault Tree Analysis (FTA) Qualitative	MAR 201		PDR – 3 weeks	CDR – 3 weeks	As required		R
	Fault Tree Analysis (FTA) Quantitative	MAR 201			With PRA analysis	As required		A
MA-18	Parts Stress Analysis	MAR 203			CDR - 45 days	Within 30 days of change		R
MA-19	Worst Case Analysis	MAR 205		PDR – 3 weeks	CDR – 3 weeks	Within 30 days of change		R
MA-20	Trend Analysis	MAR 212 MAR 213		As required	As required	As required		R
MA-21	Limited-Life Items List	MAR 214		PDR – 3 weeks	CDR – 3 weeks	Within 30 days of change		A

Table 9 – SGSS Contract Data Requirements List – Mission Assurance

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MA-22	Life cycle cost model and prediction report	MAR 217		PDR – 30 days	CDR – 30 days	As required		R
MA-23	Software Quality Assurance Plan	MAR 220 MAR 234		MDR – 2 Weeks	PDR – 2 Weeks	As Required		A
MA-24	EEE Parts List	MAR 247		PDR – 2 Weeks	CDR – 2 Weeks	As Required		A
MA-25	Equipment Identification List (EIL)	MAR 252		PDR – 1 month	CDR – 1 month	As Required		A
MA-26	Lead-free Control Plan	MAR 256		PDR – 3 weeks	CDR – 3 weeks	As Required		A
MA-27	ESD Control Plan	MAR 264		PDR – 2 Weeks	CDR – 2 Weeks	As Required		A

3.9 Training

Table 10 – SGSS Contract Data Requirements List – Training

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
TR-01	Training Plan	<i>SOW 401</i>		PDR – 2 weeks	CDR – 2 weeks	CDR + 30 days		A
TR-02	Training Documentation	<i>SOW 404</i>		8 weeks before first training session	3 weeks before first training session			R
TR-03	Wall Chart	<i>SOW 409</i>		CDR – 2 weeks	CDR + 30 days	As required		R

3.10 Maintenance and Operations

Table 11 – SGSS Contract Data Requirements List Maintenance and Operations

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MO-01	Transition and Operations Support Plan	SOW 468 SOW 569		MDR – 2 weeks	PDR – 2 weeks	CDR and As required		A
MO-02	Maintenance Plan	SOW 481		CDR– 2 weeks	ORR – 30 days			R
MO-03	Maintenance Records	SOW 482		One month after start of I&T	Monthly			I
MO-04	Logistics Analysis	SOW 493		PDR	CDR			R
MO-05	Logistics Support Plan	SOW 495 496 497 498 MAR 175		CDR – 2 weeks	ORR – 2 weeks			I

Table 11 – SGSS Contract Data Requirements List Maintenance and Operations

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
MO-07	Operations Handbook	SOW 517		3 weeks before first hardware or software delivery	3 weeks prior to SAR	As required		R
MO-08	Operations and Maintenance Manual	SOW 517		3 weeks first hardware or software delivery	3 weeks prior to SAR	As required		R
MO-09	Mission Operations Procedures	SOW 514		SAR – 2 weeks	ORR – 2 weeks			R
MO-10	Contingency Operations Procedures	SOW 514		SAR – 2 weeks	ORR – 2 weeks			R

3.11 Technical Studies

Table 12 – SGSS Contract Data Requirements List Technical Studies

ID	Title	Ref (1)		Contract Submission				Contract Acceptance Code
				Preliminary	Final	Updates	Hard copy	
TS-01	Technical Studies	SOW 167			As required	As required		R

4. DATA ITEM DESCRIPTIONS

DRAFT